Interim Response Activities

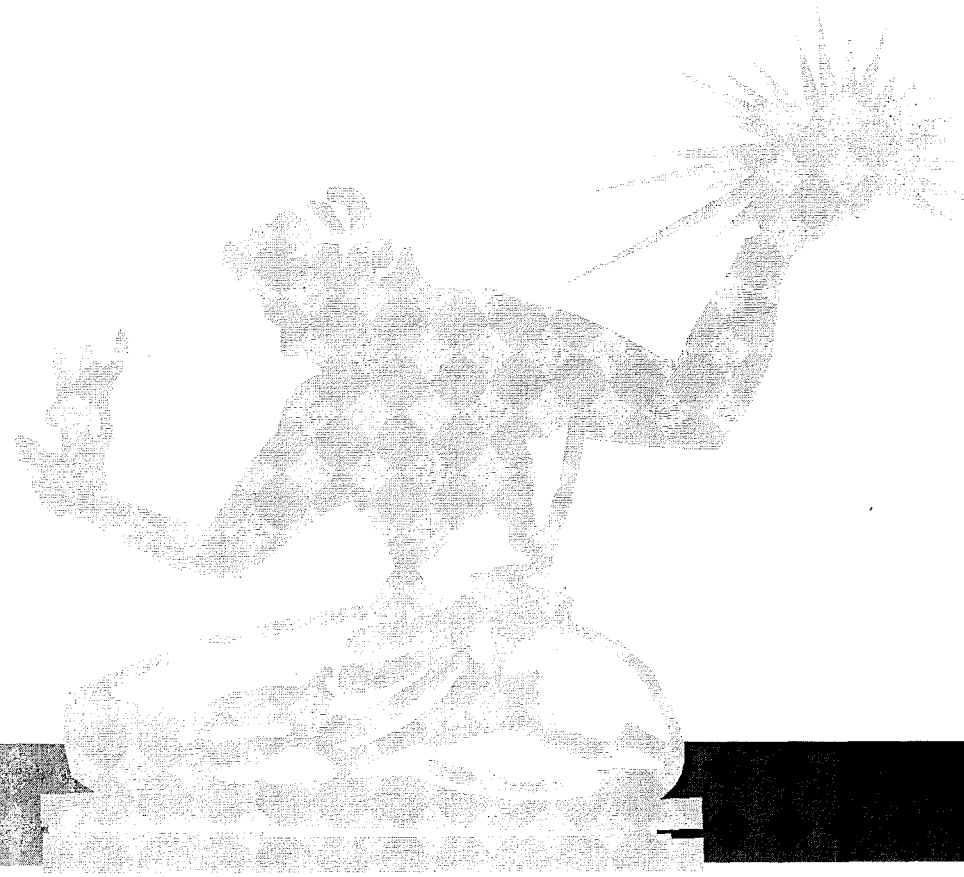
East Jefferson at Belle Isle

City of Detroit

THE TRAVERSE GROUP

Interim Response Activities

East Jefferson at Belle Isle



City of Detroit

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CONSULTANT TEAM

Interim Response Activities
East Jefferson At Belle Isle

CITY OF DETROIT

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- Project Management (Project Manager - John J. D'Addona, PE)
- Technical Oversight / Design (Project Technical Leader - Joel W. Parker)
- Investigations / Remedial Work
- Work Plans / Reports
- Project Enhancements

HALEY & ALDRICH

- MGP Remedial Design
- Geotechnical Engineering
- Ground Modification Methods
- Seawall Evaluation
- Contractor Support Services

LES

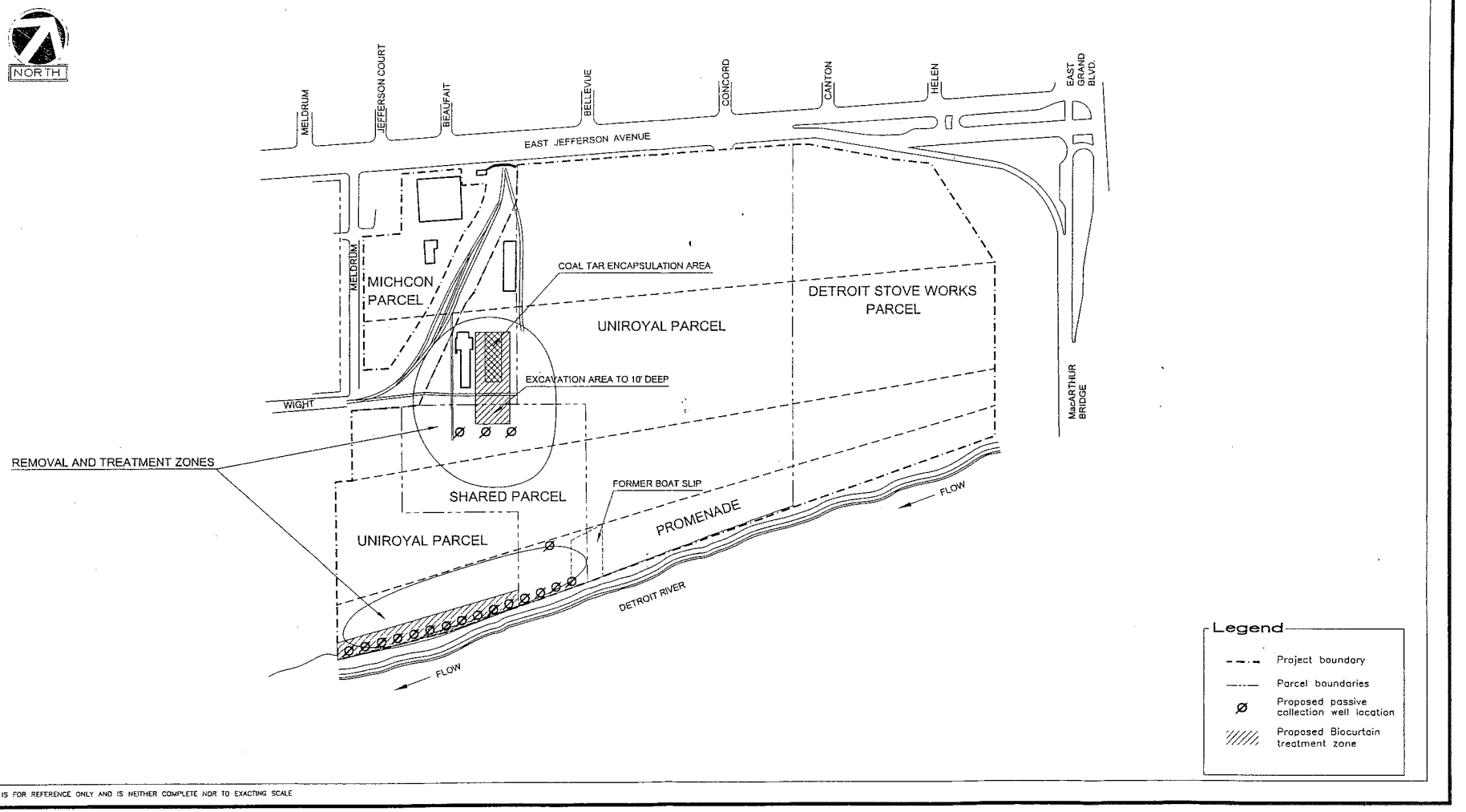
- Environmental Construction
- Heavy Equipment Operation (Excavation, Trucking / Hauling)
- Waste Coordination / Disposal
- Laboratory Services
- Drilling Services

CH2MHILL

- Engineering Support
- Cost Estimate Review
- Peer Review
- Regulatory Support
- Constructability Review

Site Background

- Former MGP Operations *(MichCon Parcel)*
- Tire Manufacturing *(Uniroyal Parcel)*
- Ammonia Works *(Shared Parcel)*
- Foundry Operations *(Stove Works Parcel)*



NOTE: THIS DRAWING IS FOR REFERENCE ONLY AND IS NEITHER COMPLETE NOR TO EXACTING SCALE

APPROXIMATE SCALE IN FEET

0 150 300 450

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A0010022/P2945 DWN: DVS REV: 10/18/00 DVS CHK: EPH

FIGURE 1
REMEDIATION PLAN/SITE
EAST JEFFERSON AT BELLE ISLE
DETROIT, MICHIGAN

The City has conducted several previous investigations, which have identified the following:

- Coal Tar
- Free Product, both LNAPL and DNAPL
- Mercury Venting to Surface Water
- Organics (BTEX, PCBs)

Objective:

Design and Implement Interim Response Activities to Address Potential Threats to Safety, Health, and Environment, while Maximizing Redevelopment Potential of the Site.

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Technical Approach

- Focused Feasibility Study *(90 Days)*
- Remedial Design
- Implementation/Engineering Oversight *(End of Year 1)*
- Operation & Maintenance *(Years 2-3)*

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Focused Feasibility Study

- General Issues (Security, HASP, PR)
- Work Plans
  - Field Sampling Plan (w/ QA/QC)
  - Data Investigation Work Plan

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Focused Feasibility Study

- **Additional Investigation**
  - Geophysical
  - Test Pits
  - Soil Borings/Sampling
    - Soil (Bench Testing)
    - Ground Water (GSI)
    - Tar/Product (Characterization)
    - River (GSI)
  - Seawall Inspection (GSI)
  - Product/Ground Water Recovery Pump Tests (NAPL, Organics)

Remedial Design

Remedial Design will Address:

- Mercury
- Coal Tar
- NAPLs
- Organics Above GSI

Anticipated Key Components Include:

- Excavation of Soil Impacted with Coal Tar to 10'
- Passive Collection Wells - NAPL
  - Including Pumping and Disposal
- Excavation and/or In-Situ Stabilization of Soil Impacted with Coal Tar Below 10'
- Barrier for Residual Coal Tar Below 10' by In-Situ Deep Soil Mixing
- Full-Scale Oxygen Injection System

Implementation/ Engineering Oversight

- Various Management Plans
- Performance Specifications
- Permitting
- Schedule
  - Implemented 1 Year from Notice to Proceed
- O&M will Extend to 2 Years from Date of Installation